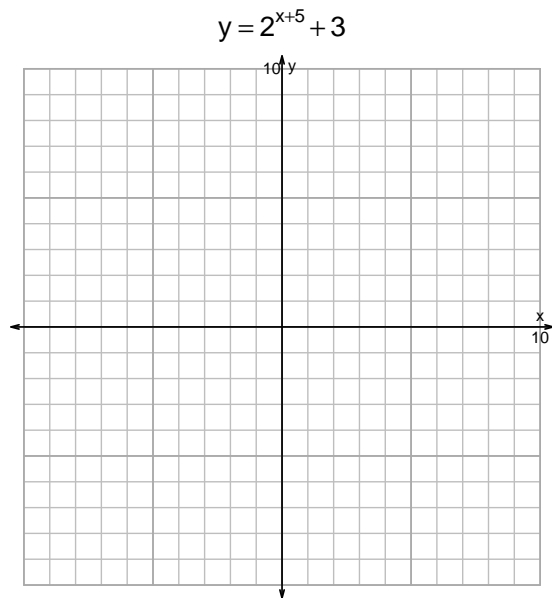
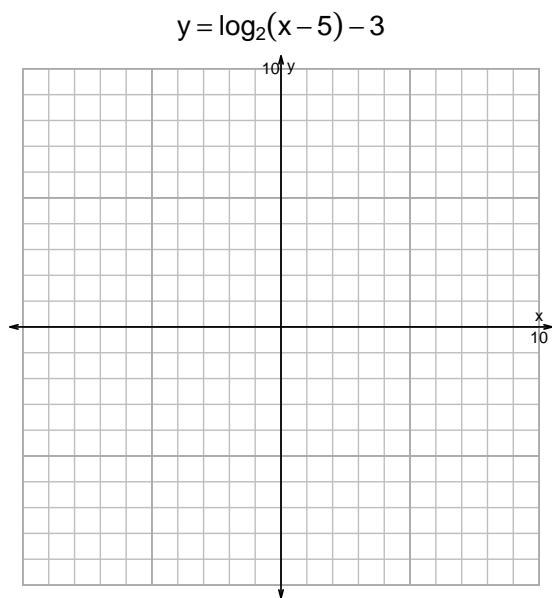


Name: _____

Date: _____

S18QUIZ: EXP LOG (PRACTICE v148)

1. Graph $y = \log_2(x - 5) - 3$ and $y = 2^{x+5} + 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-17 = \left(\frac{-3}{4}\right) \cdot 10^{7t/5}$$

3. An exponential function $f(x) = 0.0372 \cdot e^{-1.4x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(1.1)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(0.4)$.